

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15872

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F23K1/02, F23K1/04, F23K3/00, F23D21/00, F23N1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F23K1/02, F23K1/04, F23K3/00, F23D21/00, F23N1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1940-1996 | Toroku Jitsuyo Shinan Koho | 1994-2004 |
| Kokai Jitsuyo Shinan Koho | 1971-2004 | Jitsuyo Shinan Toroku Koho | 1996-2004 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | EP 1209214 A2 (KATAYAMA Yukuo, TOYO ENGINEERING CORP.), 29 May, 2002 (29.05.02), Full text; Fig. 1 & US 2002/0095867 A1 & JP 2002-155288 A | 1-24 |
| A | JP 4-217705 A (The Tokyo Electric Power Co., Inc., Ishikawajima-Harima Heavy Industries Co., Ltd.), 07 August, 1992 (07.08.92), Full text; Figs. 1 to 4 (Family: none) | 1-24 |
| A | JP 62-252497 A (NKK Corp.), 04 November, 1987 (04.11.87), Full text; Figs. 1 to 2 (Family: none) | 1-24 |

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

| | |
|---|--|
| * Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier document but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
23 March, 2004 (23.03.04)Date of mailing of the international search report
13 April, 2004 (13.04.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | US 4153427 A (THE UNITED STATES OF AMERICA AS REPRESENTED BY THE UNITED STATES DEPARTMENT OF ENERGY), 08 May, 1979 (08.05.79), Full text; Fig. 1 (Family: none) | 1-24 |